

10/552,015

FILE LAST UPDATED: 23 Mar 2009 (20090323/ED)

Capplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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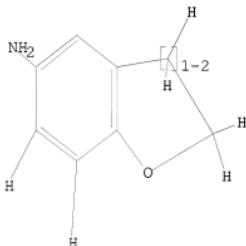
<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS
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Structure attributes must be viewed using STN Express query preparation.

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REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 18:16:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 366191 TO ITERATE

100.0% PROCESSED 366191 ITERATIONS
SEARCH TIME: 00.00.06

6 ANSWERS

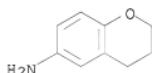
L2 6 SEA SSS FUL L1

L3 41 L2

=> s l3 and py<2003
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 L4 17 L3 AND PY<2003

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L4 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2001:827030 CAPLUS
 DOCUMENT NUMBER: 136:177463
 TITLE: 6-(4-Benzylpiperazin-1-yl)benzodioxanes as selective ligands at cloned primate dopamine D4 receptors
 AUTHOR(S): Hodgetts, Kevin J.; Kieltyka, Andrzej; Brodbeck, Robbin; Tran, Jennifer N.; Wasley, Jan W. F.; Thurkauf, Andrew
 CORPORATE SOURCE: Neurogen Corporation, Branford, CT, 06405, USA
 SOURCE: Bioorganic & Medicinal Chemistry (2001), 9(12), 3207-3213
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 136:177463
 AB A series of novel 6-(4-benzylpiperazin-1-yl)benzodioxanes were prepared and screened at selected dopamine receptor subtypes. 6-(4-Chlorobenzyl)piperazin-1-yl)benzodioxane had high affinity and selectivity for the D4 dopamine receptor subtype and was identified as a D4 antagonist via its attenuation of dopamine-induced GTP γ S binding at the D4 receptor.
 IT 50386-54-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (benzylpiperazinyl benzodioxanes as selective ligands at cloned primate dopamine D4 receptors)
 RN 50386-54-4 CAPLUS
 CN 2H-1-Benzopyran-6-amine, 3,4-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2001:396489 CAPLUS
 DOCUMENT NUMBER: 135:5535
 TITLE: Preparation and use of derivatives of dihydrofuro[3,4-b]quinolin-1-ones as anti-tumor agents

INVENTOR(S): Husson, Henri-Philippe; Giorgi-Renault, Sylviane;
 Tratrat, Christophe; Atassi, Ghanem; Pierre, Alain;
 Renard, Pierre; Pfeiffer, Bruno

PATENT ASSIGNEE(S): Adir et Compagnie, Fr.; Les Laboratoires Servier

SOURCE: Eur. Pat. Appl., 35 pp.

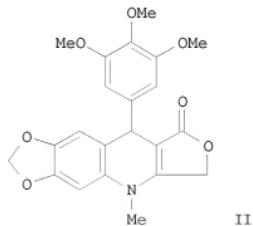
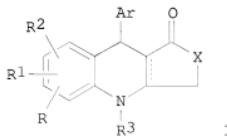
DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------------|---|----------|-----------------|--------------|
| EP 1103554 | A1 | 20010530 | EP 2000-403255 | 20001122 <-- |
| EP 1103554 | B1 | 20030312 | | |
| R: AT, BE, CH, IE, SI, LT, | DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, LV, FI, RO | | | |
| FR 2801310 | A1 | 20010525 | FR 1999-14771 | 19991124 <-- |
| FR 2801310 | B1 | 20040416 | | |
| MX 2000011240 | A | 20020523 | MX 2000-11240 | 20001115 <-- |
| JP 2001151756 | A | 20010605 | JP 2000-355438 | 20001122 <-- |
| JP 3566649 | B2 | 20040915 | | |
| AT 234305 | T | 20030315 | AT 2000-403255 | 20001122 |
| US 6548515 | B1 | 20030415 | US 2000-718917 | 20001122 |
| ES 2194692 | T3 | 20031201 | ES 2000-403255 | 20001122 |
| NO 2000005922 | A | 20010525 | NO 2000-5922 | 20001123 <-- |
| HU 2000004704 | A2 | 20011128 | HU 2000-4704 | 20001123 <-- |
| CA 2326710 | A1 | 20010524 | CA 2000-2326710 | 20001124 <-- |
| CA 2326710 | C | 20060627 | | |
| ZA 2000006912 | A | 20010605 | ZA 2000-6912 | 20001124 <-- |
| CN 1302804 | A | 20010711 | CN 2000-128318 | 20001124 <-- |
| CN 1157394 | C | 20040714 | | |
| BR 2000005557 | A | 20010717 | BR 2000-5557 | 20001124 <-- |
| AU 781300 | B2 | 20050512 | AU 2000-71825 | 20001124 |
| HK 1036983 | A1 | 20041231 | HK 2001-107838 | 20011108 |
| PRIORITY APPLN. INFO.: | | | FR 1999-14771 | A 19991124 |
| OTHER SOURCE(S): | MARPAT 135:5535 | | | |
| GI | | | | |



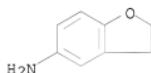
AB Compds. I, their preparation and use as anti-tumor agents are claimed [wherein; R = H, OH or alkoxy; R1, R2 = H, halo, (halo)alkyl, OH, alkoxy, amino, etc.; R3 = H, (hetero)aryl, cycloalkyl, hydroxy, alkoxy, amino, etc.; X = O, S, CH2 or CH2CH2; Ar = (hetero)aryl or arylalkyl]. Over 50 synthetic examples are provided. The process claimed is illustrated by the synthesis of II. N-Methyl-3,4-methylenedioxylaniline was reacted with 3-(3,4,5-trimethoxybenzylidene)-2,4-(3H,5H)-furandione in ethanol at reflux for 30 min to give II. Selected compds. were evaluated for cytotoxicity in L1210, A549 and HT29 cells; IC50 for II was 53, 102 and 104 nM resp. Compds. I were evaluated for *in vivo* antitumor activity against i.p. implanted murine P388 leukemia cells in BDF1 mice. At doses of 50 mg/kg i.p., II prolonged survival time to 200% of control. A sample formulation is provided.

IT 42933-43-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; synthesis and use of substituted
dihydrofuro[3,4-b]quinolin-1-ones as anti-tumor agents)

RN 42933-43-7 CAPLUS

CN 5-Benzofuranamine, 2,3-dihydro- (CA INDEX NAME)



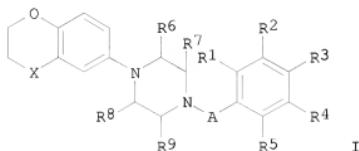
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:58596 CAPLUS
DOCUMENT NUMBER: 134:115968
TITLE: 6-(4-Arylalkylpiperazin-1-yl)benzodioxane and
6-(4-arylalkylpiperazin-1-yl)chromane derivatives
useful as subtype-specific dopamine receptor ligands
INVENTOR(S): Tran, Jennifer N.; Thurkauf, Andrew
PATENT ASSIGNEE(S): Neurogen Corporation, USA
SOURCE: U.S., 9 pp.
CODEN: USXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|--------------|
| US 6177566 | B1 | 20010123 | US 1999-343309 | 19990630 <-- |
| US 20010005753 | A1 | 20010628 | US 2001-761048 | 20010116 <-- |
| US 6333329 | B2 | 20011225 | | |
| US 20020099056 | A1 | 20020725 | US 2001-27150 | 20011220 <-- |
| US 6486164 | B2 | 20021126 | | |
| PRIORITY APPLN. INFO.: | | | US 1998-91250P | P 19980630 |
| | | | US 1999-343309 | A1 19990630 |
| | | | US 2001-761048 | A1 20010116 |

OTHER SOURCE(S):
GI

MARPAT 134:115968

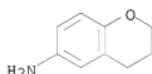


AB The title compds. [I; A = C1-4 alkylene optionally substituted with C1-2 alkyl; R1-R5 = H, halo, C1-6 alkyl, C1-6 alkoxy, C1-4 alkylthio, OH, amino, mono- or dialkylamino, cyano, nitro, CF₃, or CF₃O; R6-R9 = H, C1-6 alkyl; X = O, bond, CH₂, CH₂CH₂, CH₂O] and their pharmaceutically acceptable acid addition salts are disclosed. The compds. are useful for the treatment and/or prevention of neuropsychol. disorders including, but not limited to, schizophrenia, mania, dementia, depression, anxiety, compulsive behavior, substance abuse, Parkinson-like motor disorders, and motion disorders related to the use of neuroleptic agents. As selective ligands for dopamine D₄ receptors, the compds. are expected to be relatively free of neurol. side effects. Approx. 10 salts were prepared and their free bases claimed. Thus, reaction of 1-(1,4-benzodioxan-6-yl)piperazine (preparation given) with 4-fluorobenzyl chloride in the presence of K₂CO₃ in MeCN afforded 34% I [X = O; A = CH₂; R1 = R2 = R4 = R5 = H; R3 = F; R6-R9 = H]. This compound showed a Ki of 11 nM for D₄ receptor binding, vs. Ki values of 3662 nM and >4000 nM for D₃ and D₂ binding, resp.

IT 50386-54-4P, 6-Aminochroman

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of (arylalkylpiperazinyl)benzodioxane and (arylalkylpiperazinyl)chroman derivs. as subtype-specific dopamine receptor ligands)

RN 50386-54-4 CAPLUS**CN** 2H-1-Benzopyran-6-amine, 3,4-dihydro- (CA INDEX NAME)

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

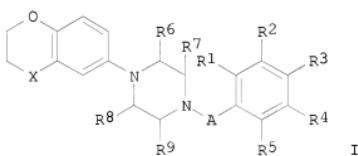
ACCESSION NUMBER: 2000:15203 CAPLUS

DOCUMENT NUMBER: 132:78570

TITLE: Preparation of 6-(4-arylalkylpiperazin-1-yl)benzodioxane and

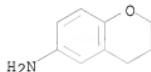
6-(4-arylalkylpiperazin-1-yl)chromane derivatives as dopamine receptor subtype specific ligands
 INVENTOR(S): Tran, Jennifer N.; Thurkauf, Andrew
 PATENT ASSIGNEE(S): Neurogen Corporation, USA
 SOURCE: PCT Int. Appl., 39 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|--------|-----------|-----------------|--------------|
| WO 2000000489 | A2 | 20000106 | WO 1999-US14426 | 19990625 <-- |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2336089 | A1 | 20000106 | CA 1999-2336089 | 19990625 <-- |
| AU 9947204 | A | 20000117 | AU 1999-47204 | 19990625 <-- |
| EP 1051949 | A2 | 20010418 | EP 1999-930727 | 19990625 <-- |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002519350 | T | 20020702 | JP 2000-557250 | 19990625 <-- |
| PRIORITY APPLN. INFO.: | | | US 1998-109242 | A 19980630 |
| | | | WO 1999-US14426 | W 19990625 |
| OTHER SOURCE(S): | MARPAT | 132:78570 | | |
| GI | | | | |



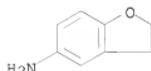
AB The title compds. [I; A = alkylene optionally substituted with alkyl; R1-R5 = H, halo, alkyl, etc.; R6-R9 = H, alkyl; X = O, a bond, alkylene, methyleneoxy] and their pharmaceutically acceptable acid addition salts which are useful for the treatment and/or prevention of neuropsychol. disorders including, but not limited to, schizophrenia, mania, dementia, depression, anxiety, compulsive behavior, substance abuse, Parkinson-like motor disorders and motion disorders related to the use of neuroleptic agents, were prepared. Thus, reacting 1-(1,4-benzodioxan-6-yl)piperazine (preparation given) with 4-fluorobenzyl chloride in the presence of K2CO3 in MeCN afforded 34% I [X = O; A = CH2; R1 = R2 = R4 = R5 = H; R3 = F; R6-R9 = H] which showed Ki of 11 nM against D4 receptor binding vs. Ki of 3662 nM and

>4000 nM against D3 and D2 binding, resp.
 IT 50386-54-4P, 6-Aminochroman
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of 6-(4-aryalkylpiperazin-1-yl)benzodioxane and
 6-(4-aryalkylpiperazin-1-yl)chromane derivs. as dopamine receptor
 subtype specific ligands)
 RN 50386-54-4 CAPLUS
 CN 2H-1-Benzopyran-6-amine, 3,4-dihydro- (CA INDEX NAME)



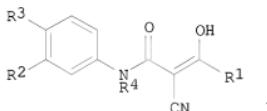
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1996:427209 CAPLUS
 DOCUMENT NUMBER: 125:195464
 ORIGINAL REFERENCE NO.: 125:36607a,36610a
 TITLE: A convenient modification of the Gassman oxindole synthesis
 AUTHOR(S): Wright, Stephen W.; McClure, Lester D.; Hageman, David L.
 CORPORATE SOURCE: Pfizer Central Research, Groton, CT, 06340, USA
 SOURCE: Tetrahedron Letters (1996), 37(27), 4631-4634
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A modification of the Gassman oxindole synthesis is described that proceeds from anilines XC₆H₄NH₂ (X = H, 4-MeO, 2-Me, 3-MeS, etc.) and Et (methylsulfinyl)acetate, using oxalyl chloride to activate the sulfoxide to facilitate the formation of the key N - S bonded intermediate. This procedure is particularly convenient for reactions carried out on smaller scales and for anilines that are susceptible to electrophilic halogenation.
 IT 42933-43-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (Gassman oxindole synthesis from anilines and Et (methylsulfinyl)acetate)
 RN 42933-43-7 CAPLUS
 CN 5-Benzofuranamine, 2,3-dihydro- (CA INDEX NAME)



L4 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1995:777739 CAPLUS
 DOCUMENT NUMBER: 123:198608
 ORIGINAL REFERENCE NO.: 123:35449a,35452a
 TITLE: Preparation of N-aryl-2-cyano-3-hydroxy propanamide-derivative antiinflammatory agents
 INVENTOR(S): Evans, Phillip L.; Kuo, Elizabeth Anne
 PATENT ASSIGNEE(S): Roussel-UCLAF, Fr.
 SOURCE: Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|------------|-----------------------------------|------------------------------|
| EP 652214 | A1 | 19950510 | EP 1994-402478 | 19941103 <-- |
| R: AT, BE, CH, JP 07188145 CA 2135044 | DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE A A1 | 19950725 | JP 1994-290323 CA 1994-2135044 | 19941101 <-- 19941103 <-- |
| PRIORITY APPLN. INFO.: | | | GB 1993-22781 | A 19931104 |
| OTHER SOURCE(S): GI | MARPAT | 123:198608 | | |

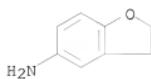


AB The title compds. [I; R1 = alkyl, cycloalkyl, alkenyl, alkynyl; CR2R3 = (un)substituted carbocyclic or heterocyclic ring; R4 = alkyl], useful as antiinflammatory agents, antidiabetic agents (no data), etc. (no data), are prepared and a I-containing formulation presented. Thus, N-[5-(2,3-dihydrobenzofuryl)]-2-cyano-3-cyclopropyl-3-hydroxy-2-propenamide, prepared in 4 steps from 2,3-dihydrobenzofuran, demonstrated 13% inhibition of carrageenan-induced rat-paw edema at 50 mg/kg (p.o.).

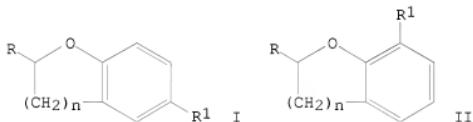
IT 42933-43-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of N-aryl-2-cyano-3-hydroxy propanamide-derivative antiinflammatory agents)

RN 42933-43-7 CAPLUS
 CN 5-Benzofuranamine, 2,3-dihydro- (CA INDEX NAME)



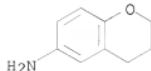
L4 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1988:406388 CAPLUS
 DOCUMENT NUMBER: 109:6388
 ORIGINAL REFERENCE NO.: 109:1205a,1208a
 TITLE: Synthesis of amino-substituted 2-methylcoumarans, chromans, benzoxepanes and their N-(alkylamino)acyl derivatives
 AUTHOR(S): Dauksas, V.; Petrauskas, O.; Purvaneckas, G.
 CORPORATE SOURCE: Vil'nyus. Univ., Vilnius, USSR
 SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1987), (3), 320-4
 DOCUMENT TYPE: CODEN: KGSSAQ; ISSN: 0453-8234
 LANGUAGE: Journal
 Russian
 OTHER SOURCE(S): CASREACT 109:6388
 GI



AB Nitration of 2-methylcoumarans, chromans, and benzoxepanes I and II ($R = Me$, $R_1 = H$, $n = 1$; $R = R_1 = H$, $n = 2,3$) gave mixts. of nitro derivs. I and II ($R_1 = NO_2$) which were reduced by Fe-Cu in EtOH to give the corresponding amines I and II ($R_1 = NH_2$). Acylation of the amines by $Me(CH_2)_3CHBrCOCl$ gave I and II [$R_1 = NHCOCHBr(CH_2)_3Me$] which could be aminated by $MeNH_2$ or Et_2NH to give I and II [$R_1 = NHCO(NHMe)(CH_2)_3Me$, $NHCOCO(NEt_2)(CH_2)_3Me$].

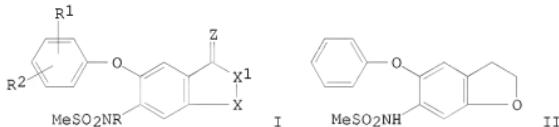
IT 50386-54-4
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and acylation of)

RN 50386-54-4 CAPLUS
 CN 2H-1-Benzopyran-6-amine, 3,4-dihydro- (CA INDEX NAME)



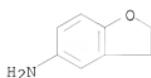
L4 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1983:71912 CAPLUS
 DOCUMENT NUMBER: 98:71912
 ORIGINAL REFERENCE NO.: 98:11003a, 11006a
 TITLE: Benzofuran derivatives and their use
 INVENTOR(S): Schroeder, Eberhard; Lehmann, Manfred; Rufer, Clemens;
 Boettcher, Irmgard
 PATENT ASSIGNEE(S): Schering A.-G., Fed. Rep. Ger.
 SOURCE: Eur. Pat. Appl., 27 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------|------------------------------------|----------|-----------------|--------------|
| EP 59884 | A1 | 19820915 | EP 1982-101418 | 19820225 <-- |
| EP 59884 | B1 | 19850522 | | |
| R: AT, BE, CH, DE 3110009 | DE, FR, GB, IT, LU, NL, SE | | | |
| AT 13429 | A1 | 19820930 | DE 1981-3110009 | 19810311 <-- |
| JP 57203079 | T | 19850615 | AT 1982-101418 | 19820225 <-- |
| JP 03008350 | A | 19821213 | JP 1982-37308 | 19820311 <-- |
| US 4411910 | B | 19910205 | | |
| PRIORITY APPLN. INFO.: | A | 19831025 | US 1982-357344 | 19820311 <-- |
| | | | DE 1981-3110009 | A 19810311 |
| | | | EP 1982-101418 | A 19820225 |
| OTHER SOURCE(S): GI | CASREACT 98:71912; MARPAT 98:71912 | | | |



AB Benzofurans I (R = H, Ac; R1, R2 = H, F, Cl; X = O, CH2; X1 = CH2, O; Z = O, H2), useful as inflammation inhibitors, analgesics, antipyretics, diuretics, thrombocyte aggregation inhibitors, anti-ulcer agents, tumor inhibitors, and in treatment of dysmenorrhea and migraine (no data), were prepared. Thus, 2,3-dihydrobenzo[b]furan-5-amine was converted in 7 steps by known methods into methanesulfonamide II.

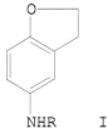
IT 42933-43-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (N-acetylation of)
 RN 42933-43-7 CAPLUS
 CN 5-Benzofuranamine, 2,3-dihydro- (CA INDEX NAME)



L4 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1983:16571 CAPLUS
 DOCUMENT NUMBER: 98:16571
 ORIGINAL REFERENCE NO.: 98:2683a,2686a
 TITLE: Acetophenetidine analogs
 INVENTOR(S): Blade Font, Arturo; De Mass Rocabayera, Teodoro; Palop, Daniel; Escartín Tomás, Pilar
 PATENT ASSIGNEE(S): Laboratorios Frumtost-Prem S. A., Spain
 SOURCE: Span., 16 pp.
 CODEN: SPXXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Spanish
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------------------|------|----------|----------------------------------|--------------------------|
| ----- ES 504326 | A1 | 19820601 | ES 1981-504326 ES 1981-504326 | 19810728 <-- 19810728 |

GI

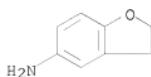


AB Acylaminobenzofurans I (R = acyl) were prepared. Thus 2,5-HO(AcNH)C6H3CH2NET2.MeI was treated with 450% excess CH2N2 to give 39% I (R = Ac) which at 25 mg/kg gave 30.66% inhibition of HOAc-induced writhing in mice.

IT 42933-43-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and acylation of)

RN 42933-43-7 CAPLUS

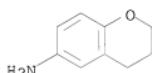
CN 5-Benzofuranamine, 2,3-dihydro- (CA INDEX NAME)



L4 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1982:16951 CAPLUS
 DOCUMENT NUMBER: 96:16951
 ORIGINAL REFERENCE NO.: 96:2827a,2830a
 TITLE: Reagents for detection of urobilinogen in body fluids
 PATENT ASSIGNEE(S): Eiken Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|--------------|
| JP 56118670 | A | 19810917 | JP 1980-21692 | 19800225 <-- |
| JP 63048311 | B | 19880928 | | |

PRIORITY APPLN. INFO.: JP 1980-21692 A 19800225
 AB Compns. containing phenyldiazonium salts (2,3-dihydroxybenzofuran-5-diazonium tetrafluoroborate, 2,3-dihydroxybenzothiophene-5-diazonium tetrafluoroborate, 1,4-benzodioxane-6-diazonium tetrafluoroborate, 2,3-dihydroxybenzofuran-7-diazonium tetrafluoroborate, 1-acetyl-2,3-dihydroindole-5-diazonium sulfate) and organic acids and(or) inorg. acids are reagents for the detection of urobilinogens in body fluids. As an example, filter papers (Whatman 3MM) were immersed in a solution containing 2,3-dihydroxybenzofuran-5-diazonium tetrafluoroborate, oxalic acid, Na laurylsulfate, MeOH and distilled H₂O, and dried at 40°. Development of a pink color is indicative of pos. results. Detection limits were .apprx.0.4 mg/dL.
 IT 50386-54-4
 RL: ANST (Analytical study)
 (diazotization and reaction of, with sodium dodecylbenzenesulfonate)
 RN 50386-54-4 CAPLUS
 CN 2H-1-Benzopyran-6-amine, 3,4-dihydro- (CA INDEX NAME)



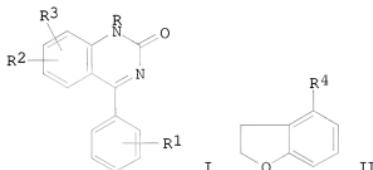
L4 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1977:5484 CAPLUS
 DOCUMENT NUMBER: 86:5484
 ORIGINAL REFERENCE NO.: 86:951a,954a
 TITLE: Tricyclic furoquinazolinones
 INVENTOR(S): Cooke, George A.; Houlihan, William J.
 PATENT ASSIGNEE(S): Sandoz-Wander, Inc., USA
 SOURCE: U.S., 11 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|----------------------------------|--------------------------|
| US 3963717 | A | 19760615 | US 1975-556574 US 1975-556574 | 19750310 <-- 19750310 |

PRIORITY APPLN. INFO.: GI

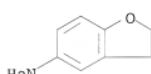


AB Antiinflammatory and analgesic (no data) furoquinazolinones I (R = CHMe₂, cyclopropylmethyl, cyclopentylmethyl, CMe₃, CH₂CMe:CH₂, Et; R1 = H, 4-F, 4-CF₃, 3-OMe; R2R3 = 7,8-OCH₂CH₂, 6,7-OCH₂CH₂, 5,6-CH₂CH₂O, 6,7-CH₂CH₂O, 5,6-OCH₂CH₂, 7,8-CH₂CH₂O) (38 compds.) were prepared. Thus the benzofuranamine II (R4 = NH₂) was treated with Me₂CHI, II (R4 = NHCHMe₂) treated with NaNC₂H, II (R4 = N(CHMe₂)CONH₂) condensed with PhCHO and oxidized with KMnO₄ to give I (R = CHMe₂, R1 = H, R2R3 = 7,8-OCH₂CH₂).
 IT 42933-43-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with isopropyl iodide)

RN 42933-43-7 CAPLUS

CN 5-Benzofuranamine, 2,3-dihydro- (CA INDEX NAME)



L4 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1973:526238 CAPLUS

DOCUMENT NUMBER: 79:126238

ORIGINAL REFERENCE NO.: 79:20487a, 20490a

TITLE: Nitration of substituted chromans

AUTHOR(S): Brancaccio, G.; Lettieri, G.; Viterbo, R.

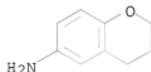
CORPORATE SOURCE: Res. Lab., Richardson-Merrell S.p.A., Naples, Italy

SOURCE: Journal of Heterocyclic Chemistry (1973),

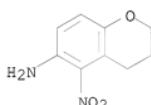
10(4), 623-9

CODEN: JHTCAD; ISSN: 0022-152X

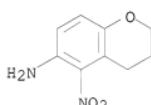
DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The nitration of Cl-, AcNH-, Me-, and NO₂-substituted chromans was studied and the structure of the nitro compds. confirmed by chemical and spectral data.
 IT 50386-54-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (Sandmeyer chlorination of)
 RN 50386-54-4 CAPLUS
 CN 2H-1-Benzopyran-6-amine, 3,4-dihydro- (CA INDEX NAME)



IT 50386-66-8P 50603-85-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 50386-66-8 CAPLUS
 CN 2H-1-Benzopyran-6-amine, 3,4-dihydro-5-nitro- (CA INDEX NAME)



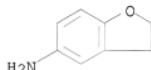
RN 50603-85-5 CAPLUS
 CN 2H-1-Benzopyran-6-amine, 3,4-dihydro-5-nitro-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

L4 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1973:418859 CAPLUS
 DOCUMENT NUMBER: 79:18859
 ORIGINAL REFERENCE NO.: 79:3035a,3038a
 TITLE: Natural and synthetic materials with insect hormone

activity. XVI. Synthesis of
 N-geranylaniine-containing oxygen heterocyclics
 AUTHOR(S): Kahovcova, Jitka; Arnold, Zdenek; Sorm, Frantisek
 CORPORATE SOURCE: Cesk. Akad. Ved, Prague, Czech.
 SOURCE: Collection of Czechoslovak Chemical Communications (1973), 38(4), 1165-7
 CODEN: CCCCAK; ISSN: 0010-0765
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The reaction of 4-amino-1,2-methylenedioxybenzene with geranyl bromide in DMF in the presence of anhydrous K₂CO₃ at 70° gave 4-(3,7-dimethyl-2,6-octadienylamino)-1,2-methylenedioxybenzene (I) and 4-[bis(3,7-dimethyl-2,6-octadienyl)amino]-1,2-methylenedioxybenzene. Similar reactions were performed with 5-amino-2,3-dihydrobenzofuran, 5-aminobenzofuran-2-carboxylic acid, 5-amino-benzo-1,3-dioxane, and 5-aminobenzo-1,4-dioxane. From I, 4-(6,7-epoxy-3,7-dimethyl-2-octenylamino)-1,2-methylenedioxybenzene and 4-(3,7-dimethyloctylamino)-1,2-methylenedioxybenzene were also prepared
 IT 42933-43-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with geranyl bromide)
 RN 42933-43-7 CAPLUS
 CN 5-Benzofuranamine, 2,3-dihydro- (CA INDEX NAME)



L4 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1966:4088 CAPLUS

DOCUMENT NUMBER: 64:4088

ORIGINAL REFERENCE NO.: 64:707e-h,708a

TITLE: Amines

PATENT ASSIGNEE(S): F. Hoffmann-La Roche & Co., A.-G.

SOURCE: 9 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|--------------|
| NL 6414649 | ---- | 19650621 | NL 1964-14649 | 19641216 <-- |
| BE 657234 | | | BE | |
| FR 1417774 | | | FR | |
| GB 1043486 | | | GB | |

PRIORITY APPLN. INFO.: CH 19631220

GI For diagram(s), see printed CA Issue.

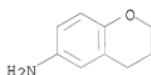
AB Amines with the general formula I, where n is 0-3, R₁, R₂, and R₃ are H or Me, R₄ is an alkyl group, and R₅ is H or an alkyl group, can be prepared from an aminophenol with the general formula II, where R_{4'} is H or an alkyl group, and R_{5'} is H, acyl, or an alkyl group, and alcohols of the

general formulas CH₂:CHC(CH₃)(OH)[CH₂CH₂CH₂CH(CH₃)]CH₃ or HOCH₂CH:C(CH₃)nCH₂CH₂CH₂CH(CH₃)nCH₃ or their esters. Thus, to a mixture of 11. freshly distilled formic acid (99%) and 120 g. 2,3,5-trimethyl-4-formylaminophenol, 200 g. isophytol was added. With addition of N₂ and refluxing, mixture was stirred for 22 hrs. at 135°. After cooling mixture was poured on 2 kg. ice and a brown oil formed. Yield was 130 g. α-tocopheramine, b0.01 200-3°, absorption maximum at 300 mμ (E11 85), which was acylated and then reduced to give N-ethyl-γ-tocopheramine, a light yellow oil, b0.01 211-14°, uv absorption maximum at 299 mμ (E11 52), n24.5D 1.5086. Similarly obtained, starting with 2,3-dimethyl-4-formylaminophenol, was N-ethyl-γ-tocopheramine, b0.05 195-7°, uv absorption maximum at 238 and 305 mμ (E11 195 and 69), n22.5D 1.5083. In 9 g. dry formic acid, 10 g. α-tocopheramine and 6 g. of a 40% formaldehyde solution were heated for 16 hrs. to boiling. Yield was N,N-dimethyl-γ-tocopheramine, b0.02, 200-5°, n23D 1.5015. Similarly obtained, starting with δ-tocopheramine, was N,N-dimethyl-δ-tocopheramine, b0.007 183-8°, n19D 1.5080, absorption maximum at 244 and 304 mμ (E11 268 and 58). In 1 l. dry formic acid 174 g. N-formyl-2,3-dimethyl-4-aminophenol was dissolved under N₂, 220 g. isophytol was added, and the mixture refluxed for 22 hrs. after which it was poured on 2 kg. ice. Yield was N-formyl-γtocopheramine, b0.01 233°, n24.5D 1.5158, which was reduced to yield N-methyl-γ-tocopheramine, a light yellow oil, b. 190-5°, n22D 1.5083, absorption maximum at 306 mμ (E11 74). Similarly obtained, starting with N-formyl-δ-tocopheramine, was N-methyl-δ-tocopheramine, b0.005 189-90°, n22.5D 1.5106, uv absorption maximum at 242 and 309 mμ (E11 225 and 66). Also obtained starting with N-formyl-β-tocopheramine, was N-methyl-β-tocopheramine, b0.03 207-10°, n21D 1.5088, absorption maximum at 234 and 300 mμ (E11 182 and 77). The compds. are useful as anti-oxidants.

IT 50386-54-4, 6-Chromanamine
(derivs.)

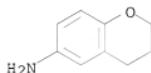
RN 50386-54-4 CAPLUS

CN 2H-1-Benzopyran-6-amine, 3,4-dihydro- (CA INDEX NAME)



L4 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1961:18014 CAPLUS
DOCUMENT NUMBER: 55:18014
ORIGINAL REFERENCE NO.: 55:3618h-i,3619a
TITLE: Aminochroman derivatives
INVENTOR(S): Hach, V.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|---|----------|-----------------|------|
| CS 91157 | | 19590715 | CS | <-- |
| AB | Chroman (20 g.) treated with 100 ml. 60% HNO ₃ at 15-25° and the mixture (after 10 min. at room temperature) diluted with 100 g. ice and 400 ml. H ₂ O gave 9.5 g. 6-nitrochroman (I), m. 102-3° (EtOH). I (9 g.) was hydrogenated in 100 ml. 96% EtOH over 1 g. Raney Ni at room temperature and normal pressure. Filtration and evaporation gave a quant. yield of 6-aminochroman (II), m. 74° (petr. ether). II (12 g.) in 50 ml. AcOH was cooled to 10° and treated with 12 g. ClCH ₂ COCl. The mixture, diluted with 50 g. ACONA in 150 ml. H ₂ O and filtered, gave 15 g. 6-chloroacetamidochroman (III), m. 125°. Reaction of III with Et ₂ NH gave 90-95% 6-diethylaminoacetamidochroman (IV); HCl salt m. 163°; ethobromide m. 188°. Similarly, III and piperidine gave 6-piperidinoacetamidochroman (V); HCl salt m. 225°. Salts of IV and V were local anesthetic and hypotensive agents. | | | |
| IT | 50386-54-4P, 6-Chromanamine | | | |
| RL | PREP (Preparation) | | | |
| | (preparation of) | | | |
| RN | 50386-54-4 CAPLUS | | | |
| CN | 2H-1-Benzopyran-6-amine, 3,4-dihydro- (CA INDEX NAME) | | | |



L4 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1960:11424 CAPLUS
 DOCUMENT NUMBER: 54:11424
 ORIGINAL REFERENCE NO.: 54:2322f-i,2323a-b
 TITLE: Local anesthetics. XI. Simple chroman derivatives
 AUTHOR(S): Hach, V.
 CORPORATE SOURCE: Leciva, Dolni Mecholupy, Prague
 SOURCE: Collection of Czechoslovak Chemical Communications (1959), 24, 3136-40
 CODEN: CCCCAK; ISSN: 0010-0765
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 AB cf. C.A. 52, 4652e. 6-(Diethylaminoacetylaminoo)chroman (I), 6-(piperidinoacetylaminoo)chroman (II), and 6-(β -piperidinopropionyl)chroman (III) were prepared as cyclic analogs of p-alkoxy-substituted dialkylaminoacylanilides (IV) and of fallicain (V), resp., and tested in the form of the HCl salts as surface and infiltration anesthetics; their activity, however, was lower than that of IV and V. Introducing 3 hrs. at 0° HBr (prepared from 300 g. Br in H) into 20 g. o-CH₂:CHCH₂C₆H₄OAc, 100 ml. CC14 (dried over P2O₅), and 2 g. Bz2O₂, keeping the mixture overnight, evaporating the solvent, adding 150 ml. NaOH, extracting the mixture with Et₂O, evaporating the exts., adding 10 g. NaOH, 50 ml. H₂O, and 100 ml. EtOH to the oily residue, boiling the mixture 2.5 hrs.,

diluting with H₂O, extracting with Et₂O, evaporating, and distilling gave chroman (VI), b24-27 100-105°, n_{20D} 1.5480. Adding dropwise and with vigorous agitation in 12 min. at 15-25° 20 g. VI to 100 ml. 60% HNO₃ gave a blue-green mixture which was kept 10 min. at 20° and then poured into 100 g. ice and 400 ml. H₂O; an oily precipitate separated which on addition of 10-15 ml.

EtOH gave 9.5 g. yellow powder of 6-nitrochroman (VII), m. 104° (EtOH). Hydrogenating 1 hr. 9 g. VII, 100 ml. 96% EtOH, and 1 g. Raney Ni at 20° and atmospheric pressure, filtering off the catalyst, and evaporating gave 6-aminochroman (VIII), m. 74° (petr. ether); picrate m. 203° (EtOH); N-Ac derivative (IX) m. 118° (EtOH). Adding in one portion at 10° 12 g. ClCH₂COCl to 12 g. VIII in 50 ml. AcOH and pouring the mixture after 1 min. into 50 g. NaOAc in 150 ml. H₂O gave 15 g. 6-(chloroacetylaminio)chroman (X), m. 125° (EtOH). Treating as usual (C.A. 49, 979e) Et₂NH in C₆H₆ with X gave 90-95% I, b0.3 180-5°, m. 63° (petr. ether); HCl salt (prepared in Et₂O solution) m. 163° (EtOH); picrate m. 201° (EtOH); ethobromide (prepared in acetone solution) m. 188° (EtOH-Et₂O). Similarly was prepared II, b0.5 190-5°; HCl salt m. 225° (EtOH); picrate m. 217° (EtOH). 6-Acetylchroman (XI) was prepared according to Chatelus (C.A. 44, 1975c), m. 43° (petr. ether); oxime (XII) m. 88° (EtOH); thiosemicarbazone m. 219° (EtOH). Heating exactly 7.5 min. at 100-10° 2.5 g. XII, 20 ml. 85% H₃PO₄, and 35 g. P₂O₅, pouring the mixture onto ice, extracting with Et₂O, and evaporating the exts. gave 1.6 g. IX.

Heating 8 hrs. on a steam-bath 8.8 g. XI, 11.1 g. piperidine HCl salt, 8 g. (HCHO)_x, and 150 ml. absolute EtOH, keeping the mixture 48 hrs. at 5°, filtering off the precipitate, and washing with 25 ml. EtOH gave 10.3 g. III

HCl salt, m. 202° (EtOH).

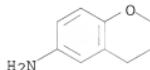
IT 50386-54-4P, 6-Chromanamine 101093-09-8P,

6-Chromanamine, picrate

RL: PREP (Preparation)
(preparation of)

RN 50386-54-4 CAPLUS

CN 2H-1-Benzopyran-6-amine, 3,4-dihydro- (CA INDEX NAME)



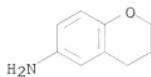
RN 101093-09-8 CAPLUS

CN 2H-1-Benzopyran-6-amine, 3,4-dihydro-, compd. with 2,4,6-trinitrophenol (1:1) (CA INDEX NAME)

CM 1

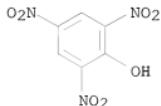
CRN 50386-54-4

CMF C9 H11 N O



CM 2

CRN 88-89-1
 CMF C6 H3 N3 O7



L4 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1923:8151 CAPLUS

DOCUMENT NUMBER: 17:8151

ORIGINAL REFERENCE NO.: 17:1447f-i,1448a-c

TITLE: Rings through the m- and p-positions of benzene. A study of certain ethers of resorcinol and m-aminophenol

AUTHOR(S): Wilson, W. C.; Adams, Roger

SOURCE: Journal of the American Chemical Society (1923), 45, 528-40

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB Attempts to close m- and p-rings, starting from various types of phenol ethers, were unsuccessful. Resorcinol bis- β -bromoethyl ether, from 6H₄(ONa)₂ and (CH₂Br)₂ in alc., m. 94.5-5.0°, b9 166-7°.

Bis- γ -bromopropyl ether, from 6H₄(OH)₂, CH₂(CH₂Br)₂ and K₂CO₃ in Me₂CO-H₂O, m. 67°, b6 204-6°; with 6H₄(ONa)₂ there are formed, in addition, 3 other products: the γ -bromopropyl allyl ether, 6H₄(OCH₂CH:CH₂)OCH₂CH₂CH₂Br, m. 88-9°, γ -propyloxyphenyl(allyloxyphenyl)trimethyleleneglycol, m. 119-20°, and resorcinol diallyl ether, b12 156-8°, d2020 1.1645, n_D20 1.5672. Bis- γ -iodopropyl ether, from the Br compound in aqueous Me₂CO with NaI, m. 88-9°, is partly converted by Na in Et₂O into the dipropyl ether, also obtained from 6H₄(OH)₂, PrBr and K₂CO₃ in Me₂CO, b12 127-8°, d2121 1.035, n_D33 1.5138.

Bis- γ -amylaminopropyl ether, from 6H₄(OCH₂CH₂CH₂I)₂ and AmNH₂ heated alone or in PbMe, b10 249-52°; dihydrochloride, m. 287°. Bis- γ -cyanopropyl ether, from the I compound and NaCN in aqueous alc., b7 236-7°, m. 31-2°, converted by Na in alc. into the bis- δ -aminobutyl ether, b7 208-9° d2020 1,0589, n_D26 1.5315, whose dihydrochloride m. 248-9° and monohydrochloride m. 233-4°; the latter, distilled under 7 mm., decomp. into pyrrolidine, m-6H₄(OH)₂ and resorcinol mono- δ -aminobutyl ether, b8

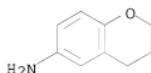
198-204°, m. 119-9.5° (hydrochloride, m. 159-61°), which in NaOH with p-O2NC6H4COCl gives resorcinol mono- δ -p-nitrobenzoylaminobutyl ether p-nitrobenzoate, m. 123-4°, m-Nitrophenyl γ -bromopropyl ether, from O2NC6H4OH, CH2(CH2Br)2 and Na in alc., b7 186-8°, d2020 1.513, nD25 1.5700, reduced by SnCl2-HCl to the m-amino compound, unstable yellow oil (hydrochloride, m. 114-5°), which, refluxed in C6H4, gives 6-aminochroman, b7 140-2°, d2020 1.1549, nD25 1.5944; hydrochloride, begins to decompose 134°, m. 158-60°; picrate darkens 156-60°, m. 182-3°; chloroplatinate, m. 145-6°; benzenesulfonyl derivative, m. 224-5°, decomp. 227°; benzenesulfonyl derivative, m. 148-8.5°. The diazotized chroman couples with β -naphthol to a red substance, C19H16O2N2. m-Nitrophenyl allyl ether, from O2NC6H4OH, CH2:CHCH2Br and Na in alc., b8 136-7°, m. 31.5-2.0°; m-amino compound, b5 120-2°, d2020 1.0891, nD25 1.5708; hydrochloride, m. 196°.

IT 50386-54-4P

RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Rings through the m- and p-positions of benzene. A study of certain ethers of resorcinol and m-aminophenol)

RN 50386-54-4 CAPLUS

CN 2H-1-Benzopyran-6-amine, 3,4-dihydro- (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 18:15:27 ON 24 MAR 2009)

FILE 'CAPLUS' ENTERED AT 18:15:37 ON 24 MAR 2009

L1 STRUCTURE uploaded
S L1FILE 'REGISTRY' ENTERED AT 18:16:00 ON 24 MAR 2009
L2 6 S L1 FULLFILE 'CAPLUS' ENTERED AT 18:16:07 ON 24 MAR 2009
L3 41 S L2 FULL
L4 17 S L3 AND PY<2003

=> s 14 and antioxidant
L5 142320 ANTIOXIDANT
0 L4 AND ANTIOXIDANT